

WHAT IS CLAIMED IS:

1. An initial solids mixture for a later organic coating, comprising:

additive particles, including at least one of boron carbide, silicon carbide, a compound of transitional elements and lanthanides, an electrical conductivity of the additive particles being in a metallic range, the additive particles configured to have a continuous physical connection in at least one spatial direction.

2. The initial solids mixture according to claim 1, wherein the later organic coating includes one of a pigmented coating and a priming coat.

3. The initial solids mixture according to claim 1, wherein the initial solids mixture is configured to be applied to a substrate according to a coil coating method.

4. The initial solids mixture according to claim 1, wherein the electrical conductivity is in a range of  $\sigma > 10^2 \text{ 1}/\Omega\text{cm}$  to  $\sigma < 10^7 \text{ 1}/\Omega\text{cm}$ .

5. The initial solids mixture according to claim 1, wherein the transitional elements include at least one of iron, manganese, zirconium, titanium, molybdenum, vanadium and tungsten.

6. The initial solids mixture according to claim 5, wherein the transitional elements are in a lower oxidation state.

7. The initial solids mixture according to claim 1, wherein the lanthanide includes cerium.

8. The initial solids mixture according to claim 1, wherein the additive particles further include at least one of an oxide, a carbide, a silicide and a boride.

9. The initial solids mixture according to claim 1,  
further comprising a non-noble metal in an elemental state.

10. The initial solids mixture according to claim 9,  
wherein the non-noble metal includes at least one of zinc and  
aluminum.

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